

Fig. 1

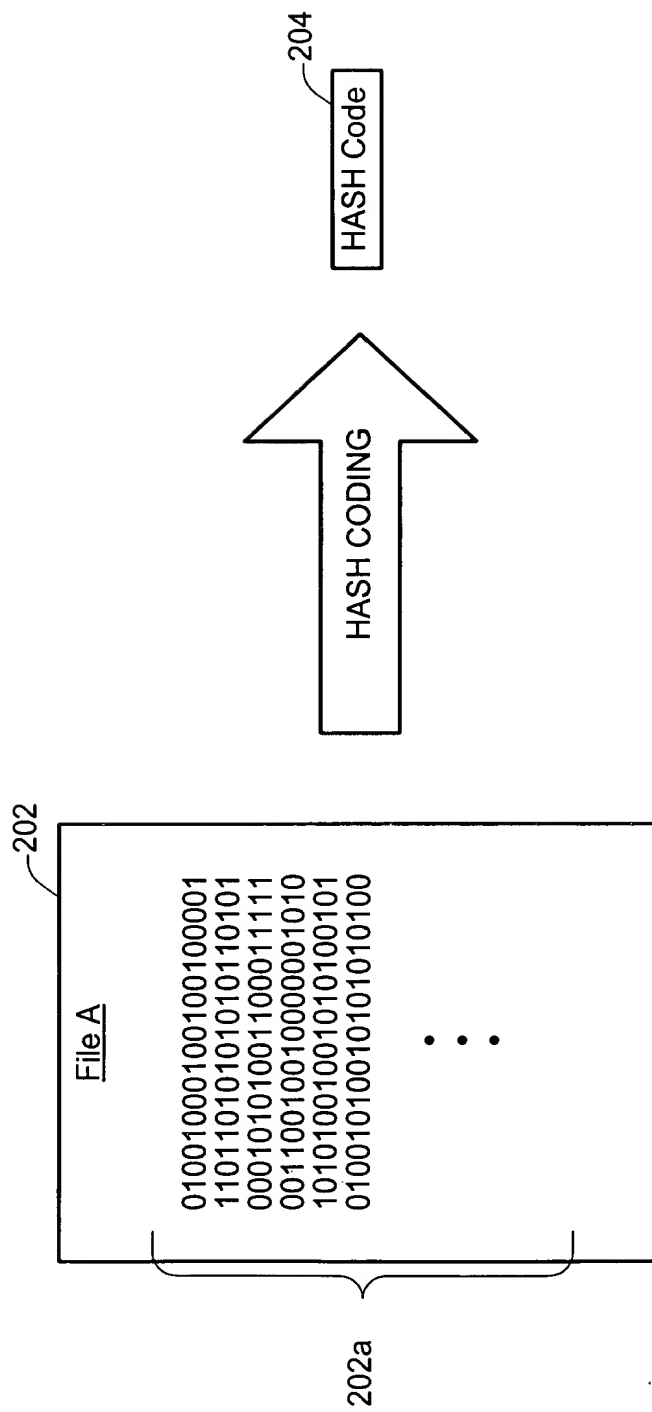


Fig. 2

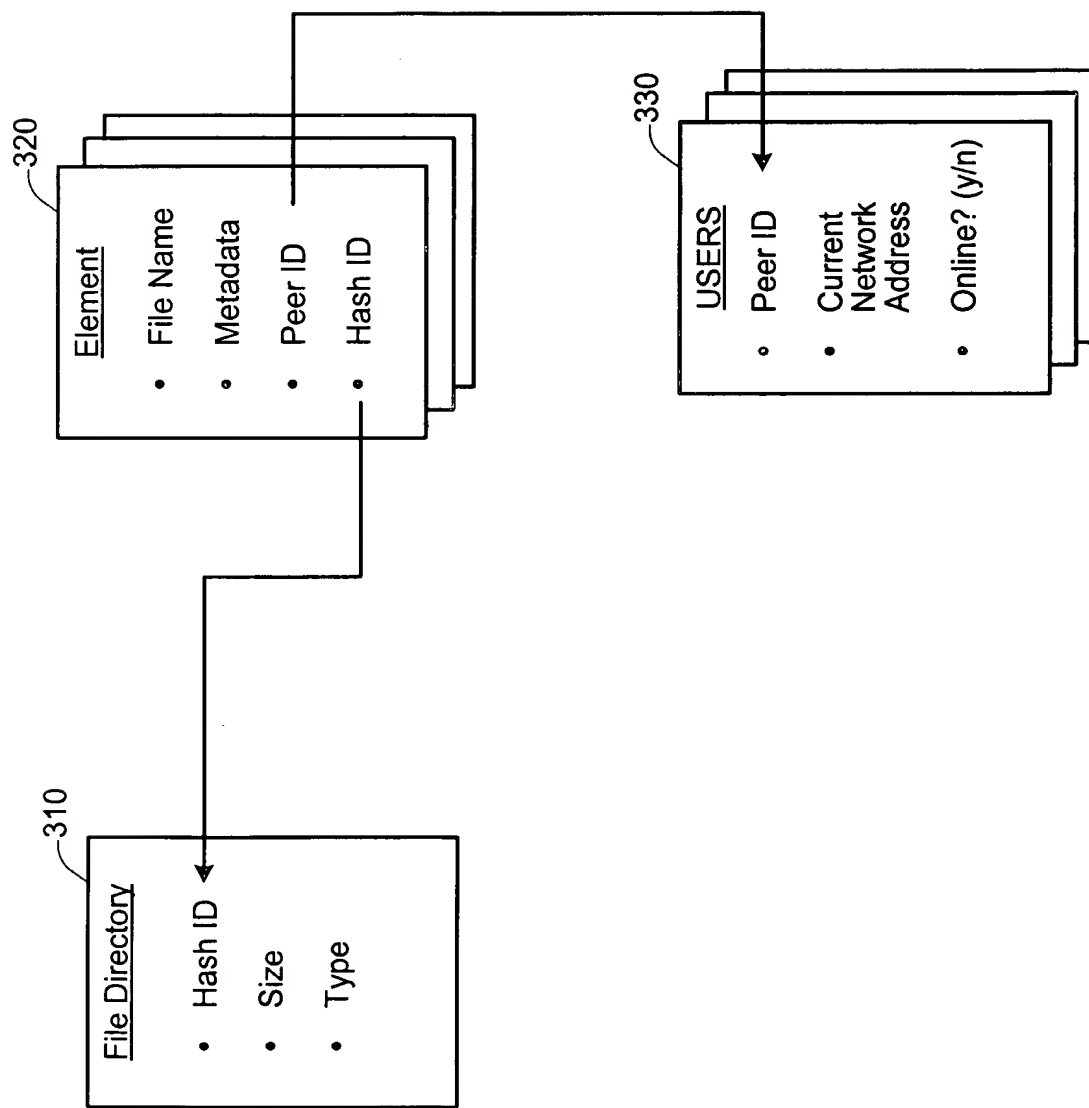


Fig. 3A

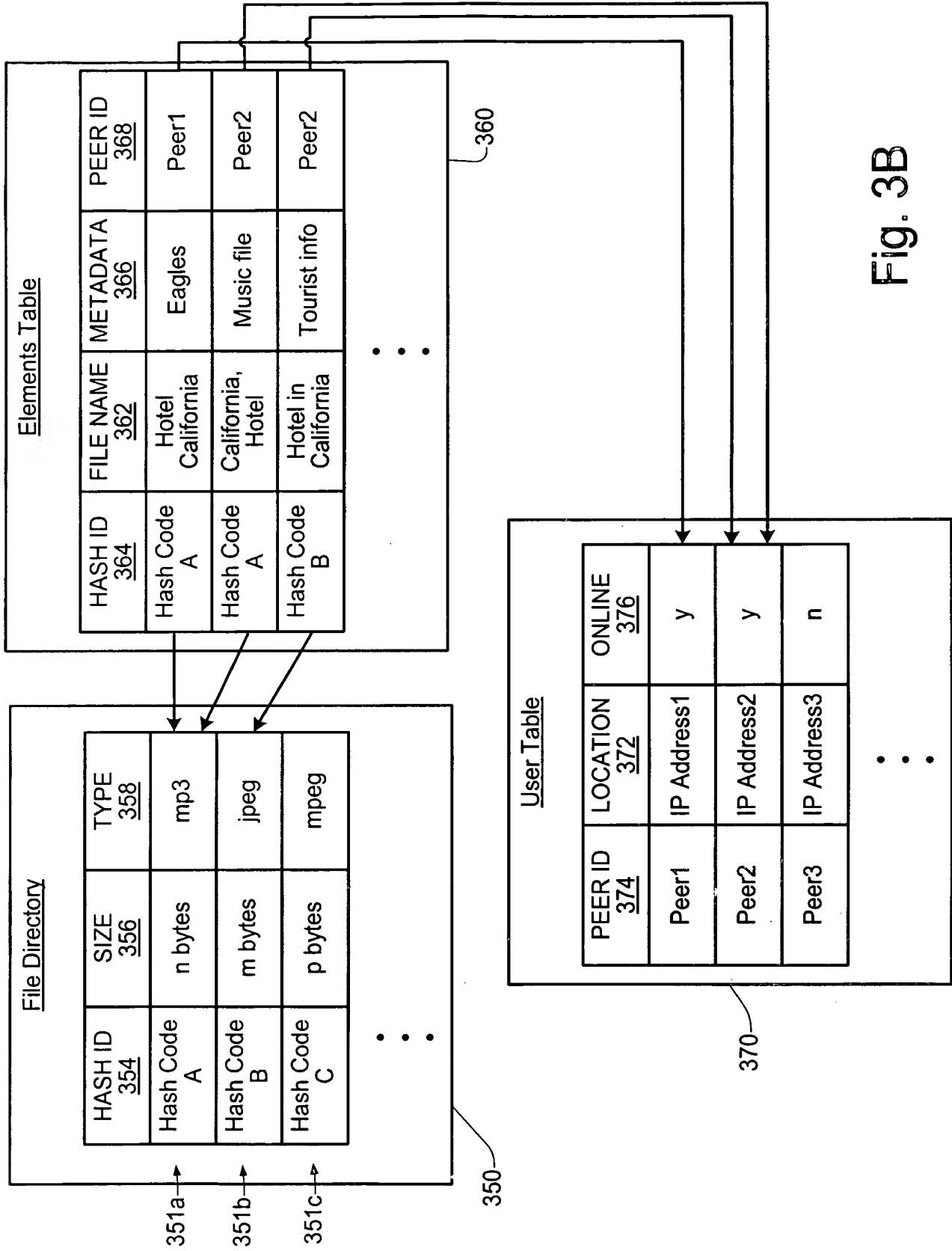


Fig. 3B

File Table						
FILE NAME 452	HASH ID 454	SIZE 456	TYPE 457	METADATA 458	LOCATION 459	
File A	Hash Code A	n bytes	mp3		c:\my music	451a
File B	Hash Code B	m bytes	jpeg	birthday picture	c:\my pics	451b
File C	Hash Code C	p bytes	mpeg	graduation	c:\my vids	451c
° ° °						

450

Fig. 4A

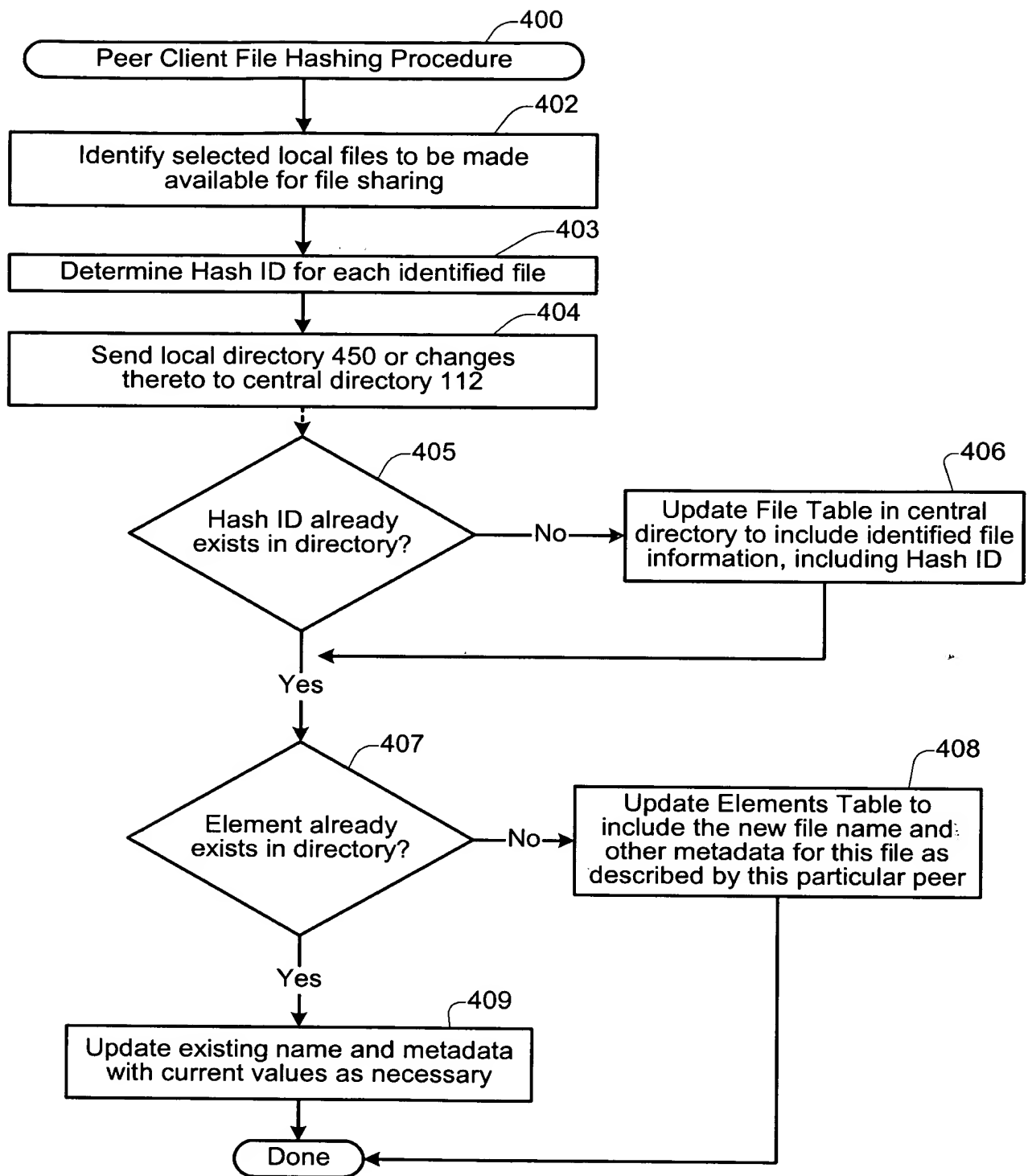


Fig. 4B

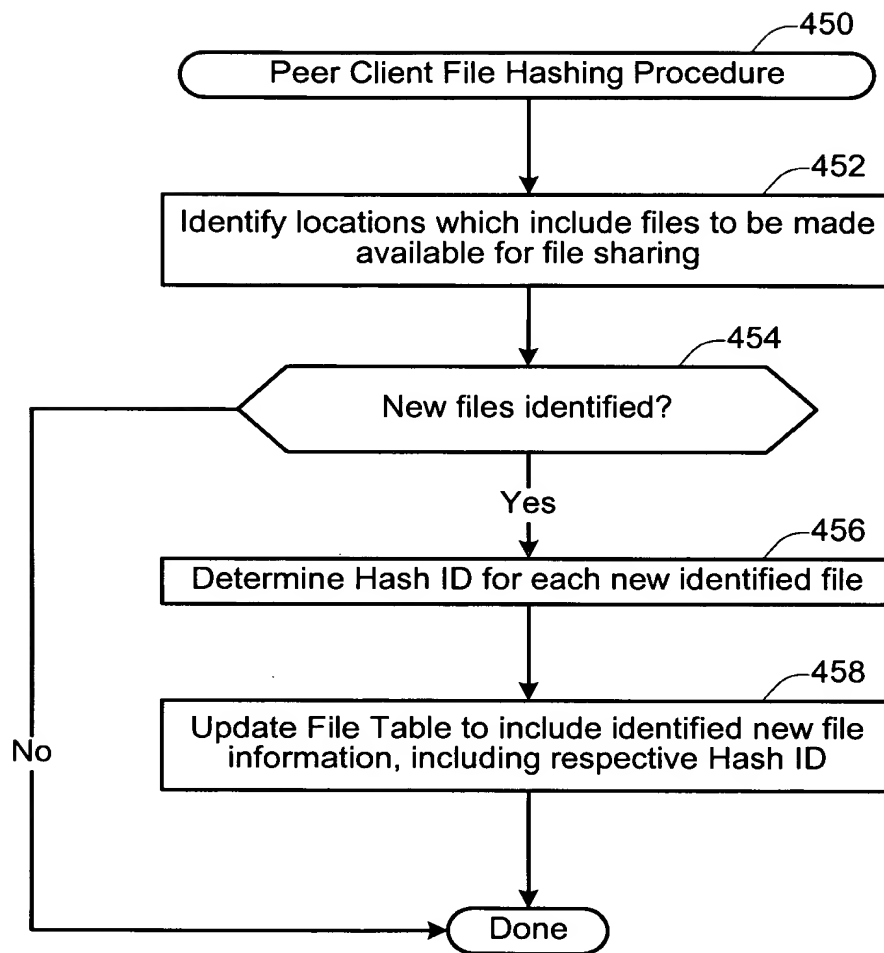


Fig. 4C

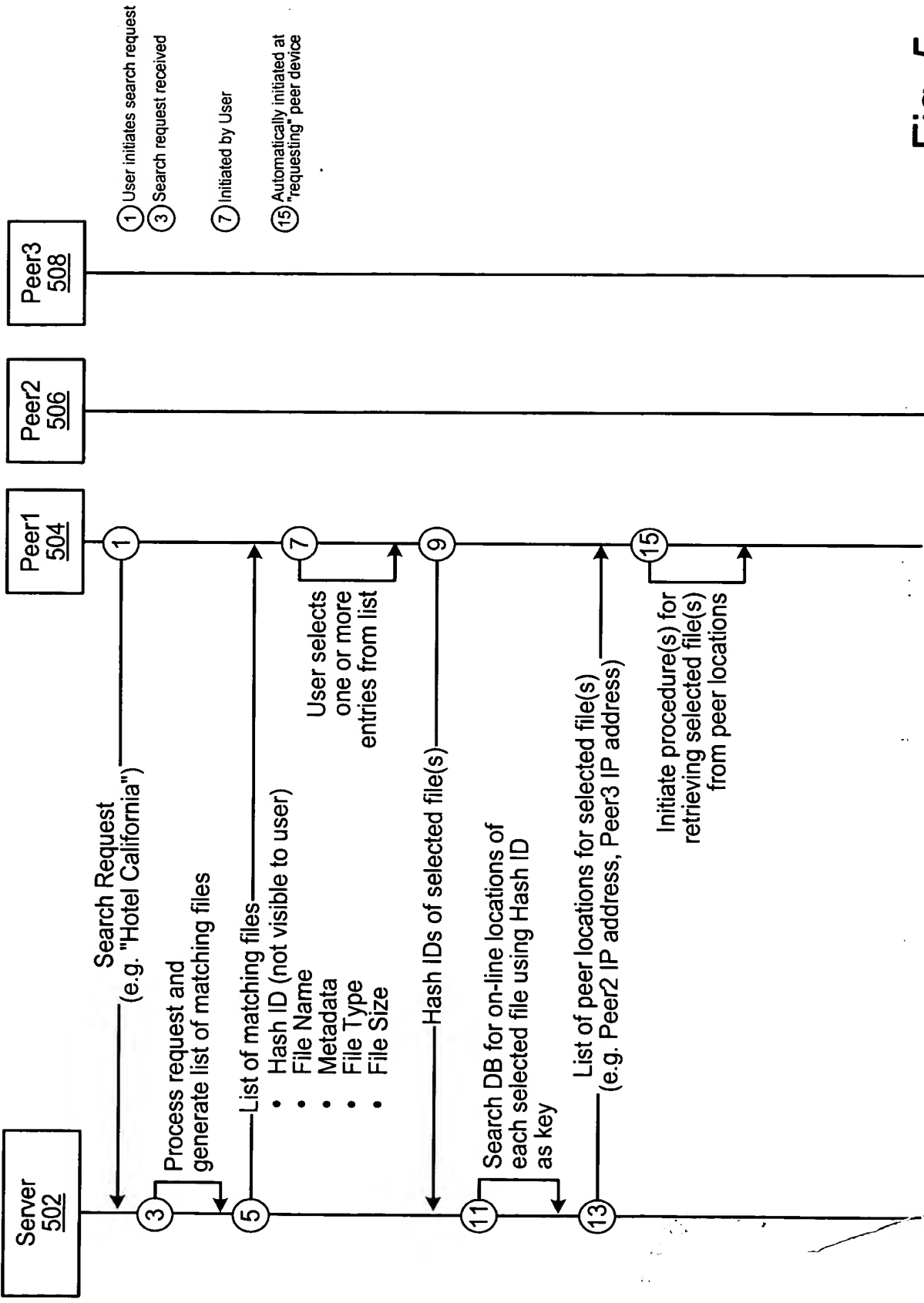


Fig. 5



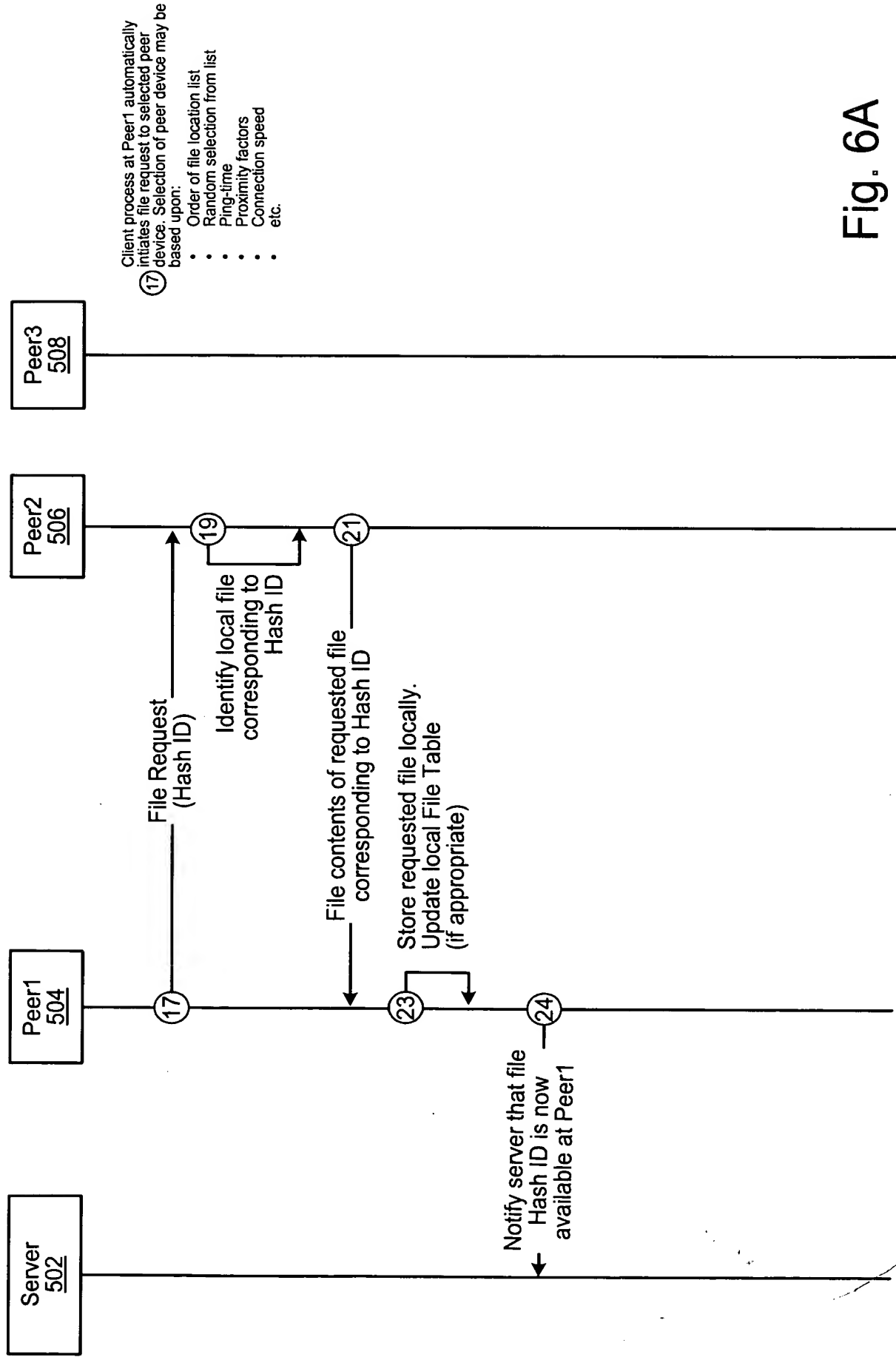


Fig. 6A

Round-Robin Embodiment

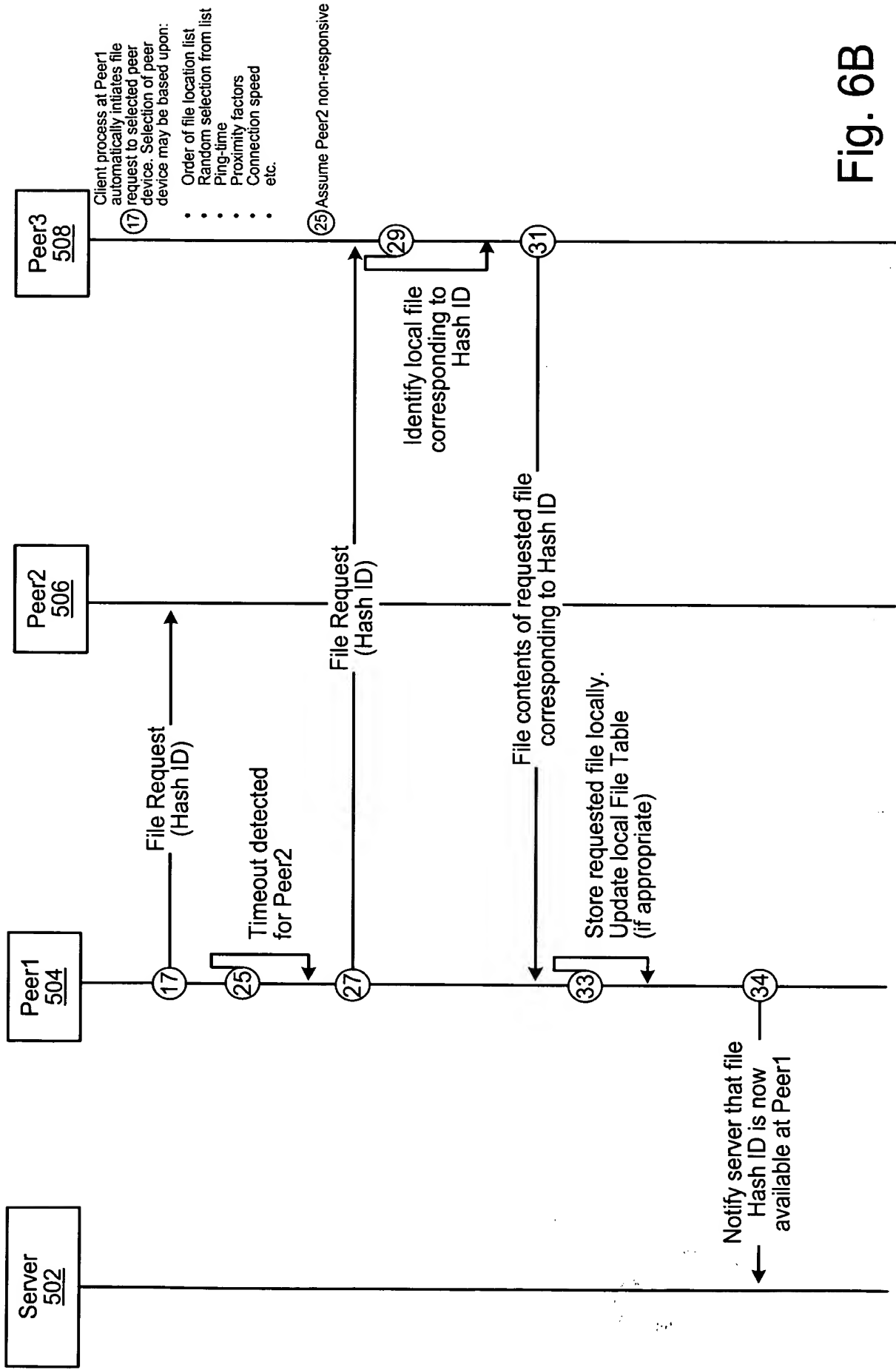


Fig. 6B

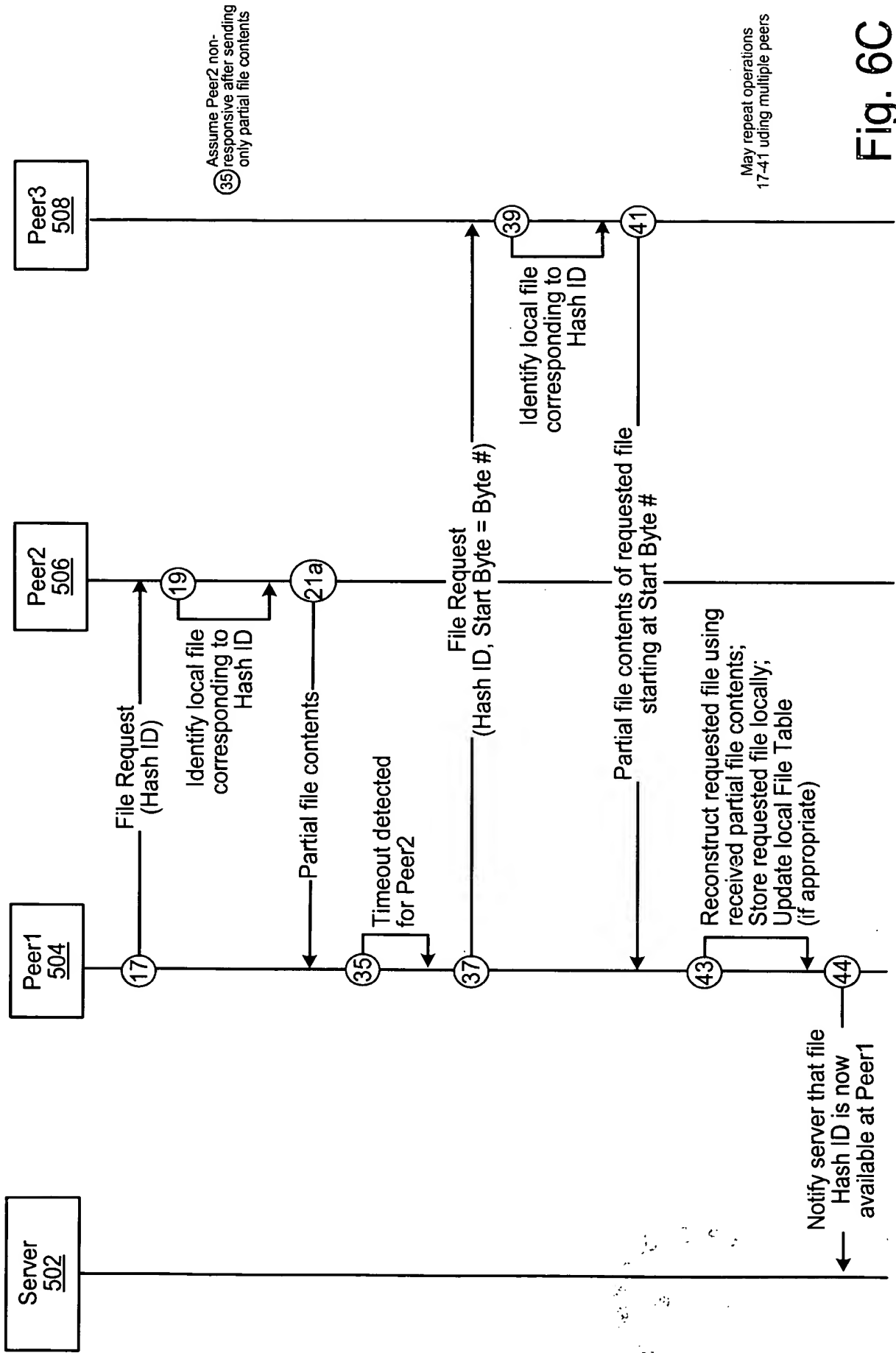


Fig. 6C

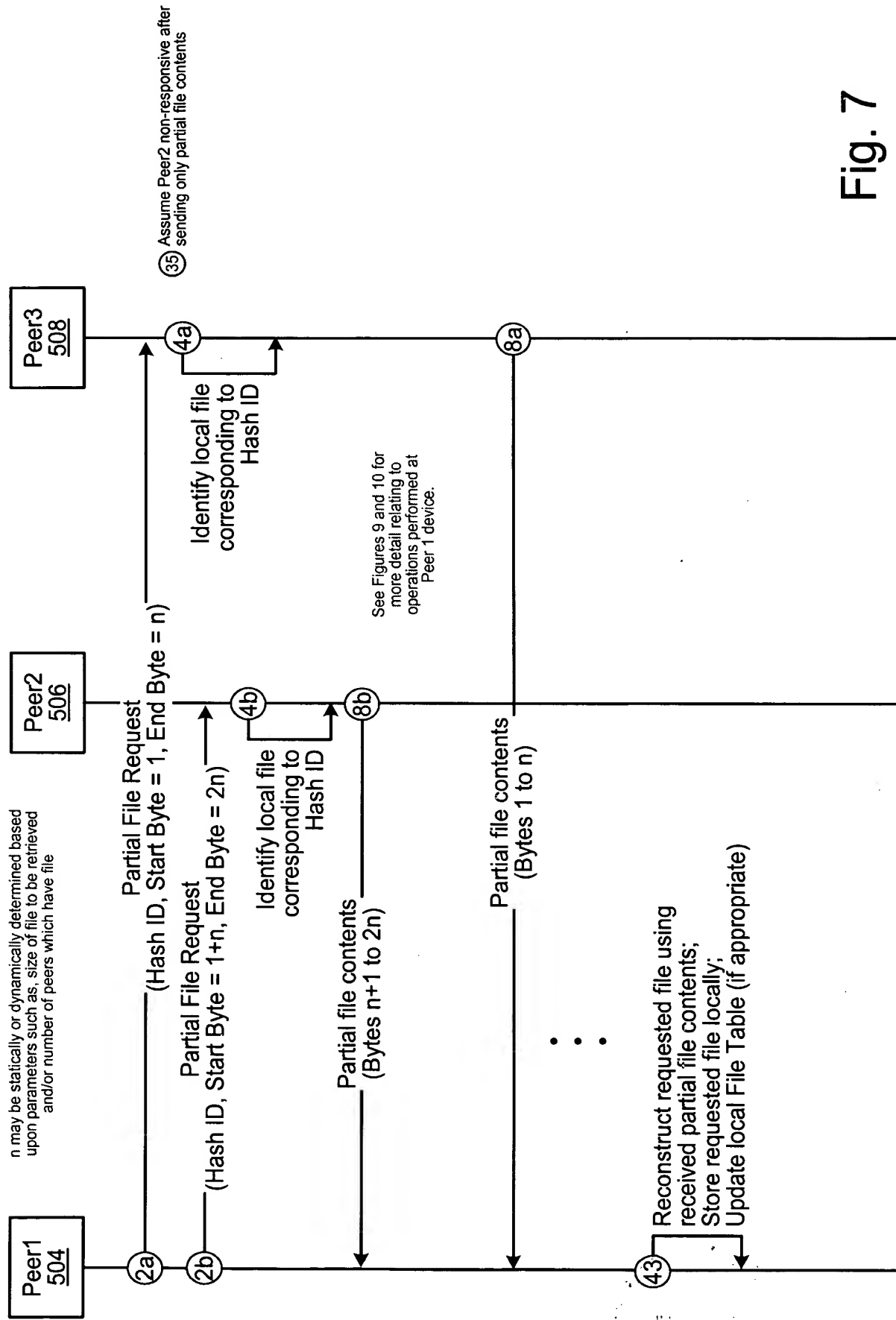


Fig. 7

Swarming technique is adaptive mechanism for balancing workload across multiple peers.

Chunk No. =

1

AR	ANR	AR	ANR	AR	AR	ANR	AR	AR	NAR	NAR	...	NAR	NAR
----	-----	----	-----	----	----	-----	----	----	-----	-----	-----	-----	-----

m

AR = Assigned and Retrieved

ANR = Assigned and Not Retrieved

NAR = Not Assigned and Not Retrieved

800

Fig. 8

Chunk Map for desired file.

Maintained by Chunk Manager.

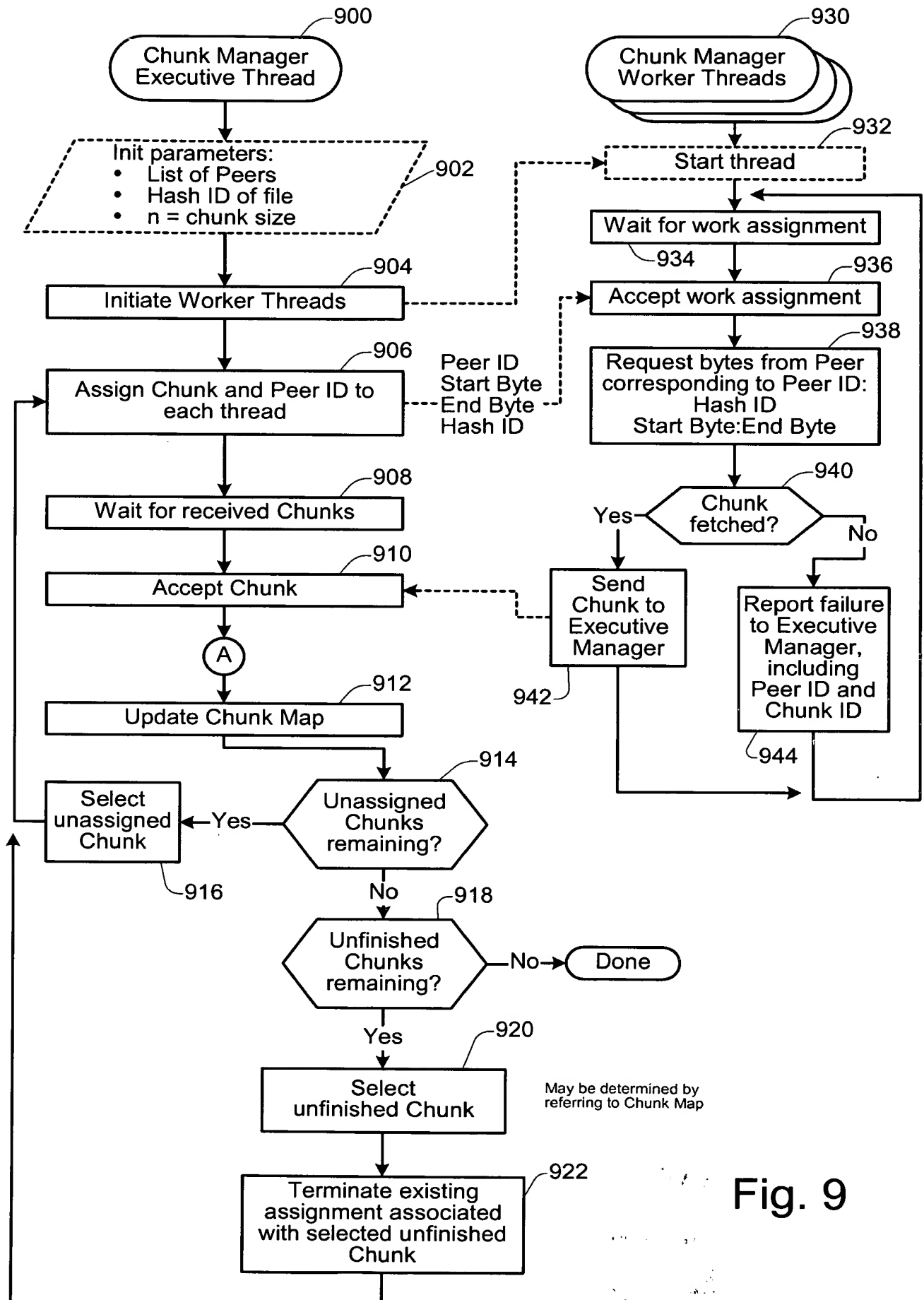


Fig. 9

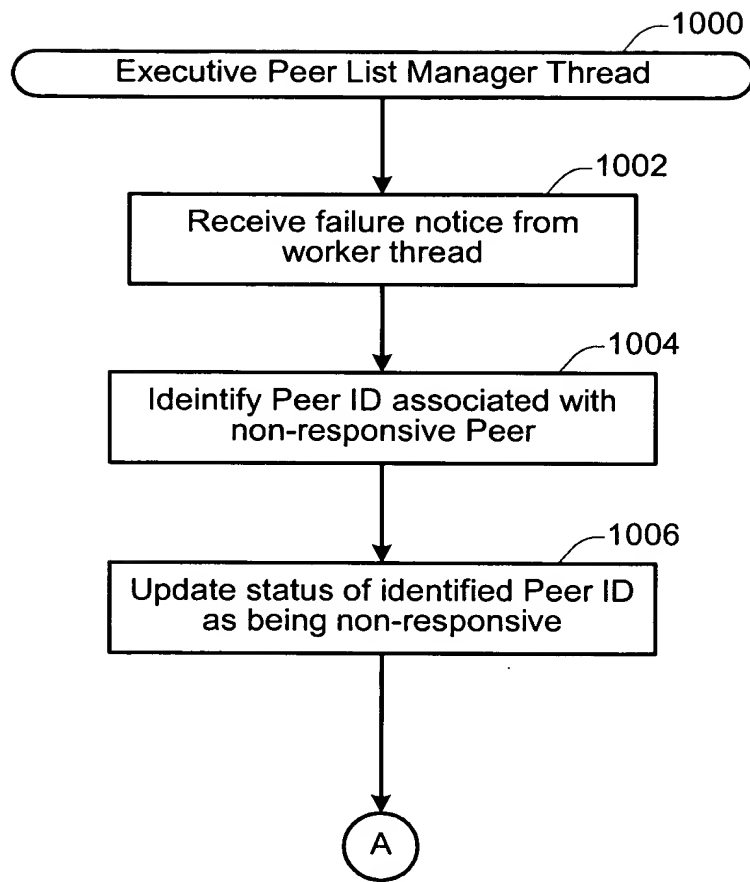


Fig. 10

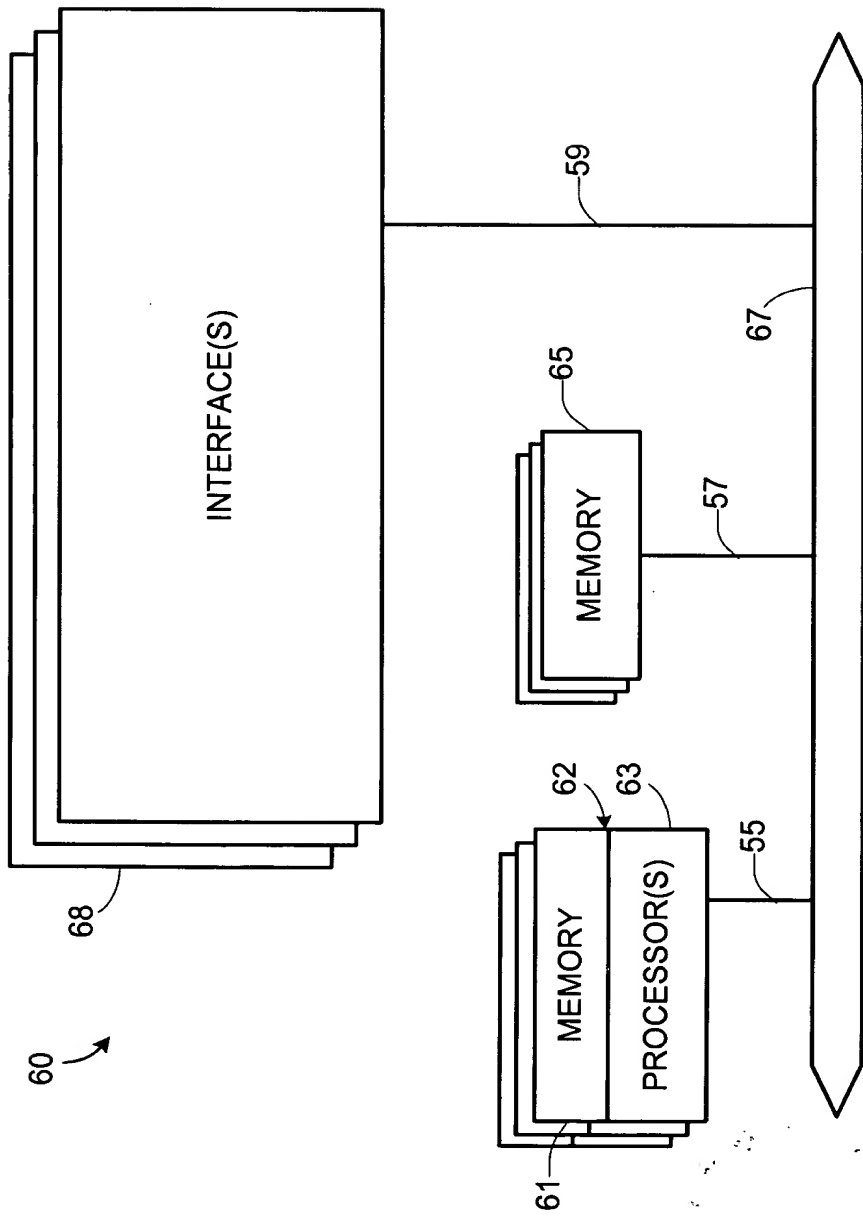


Figure 11



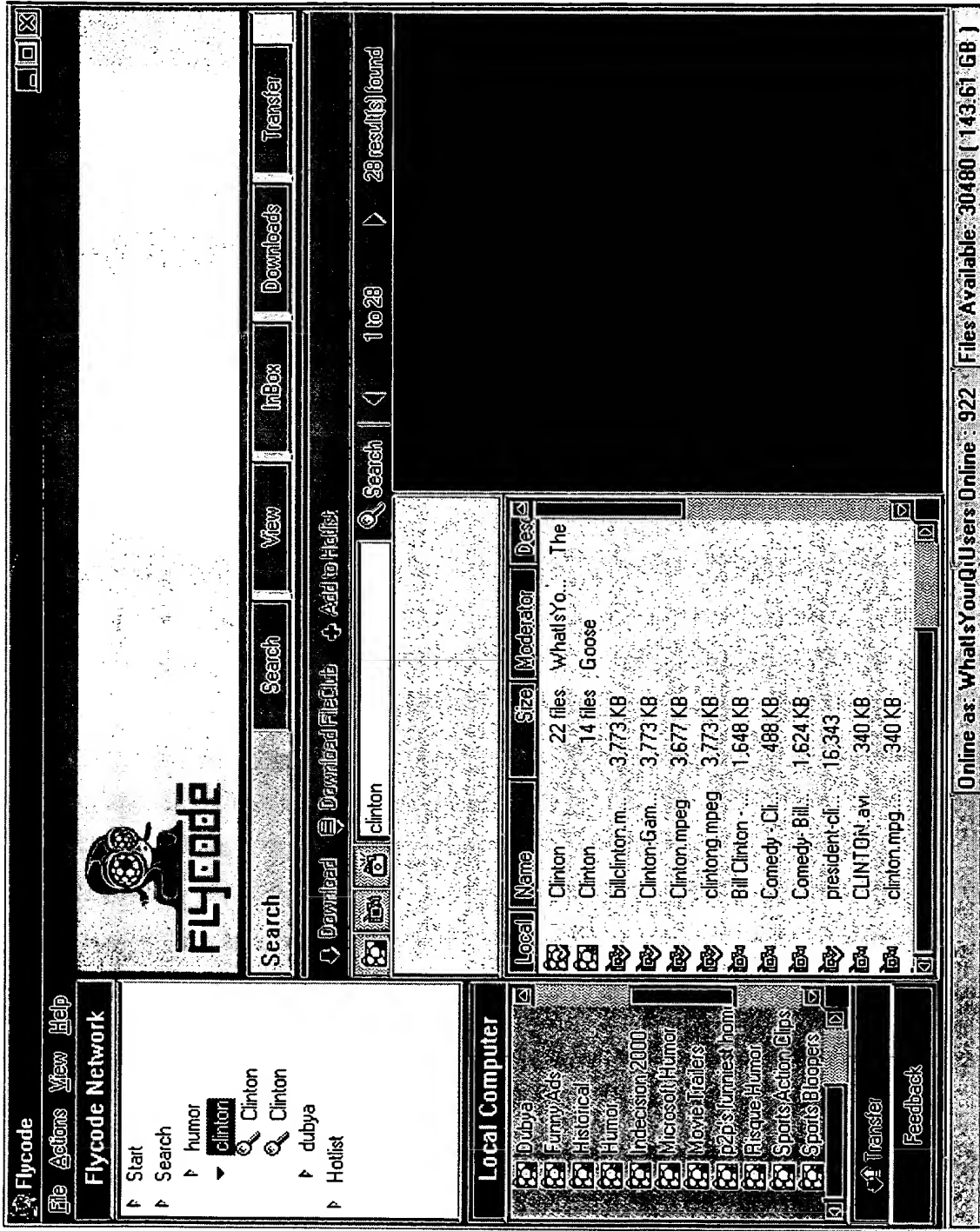
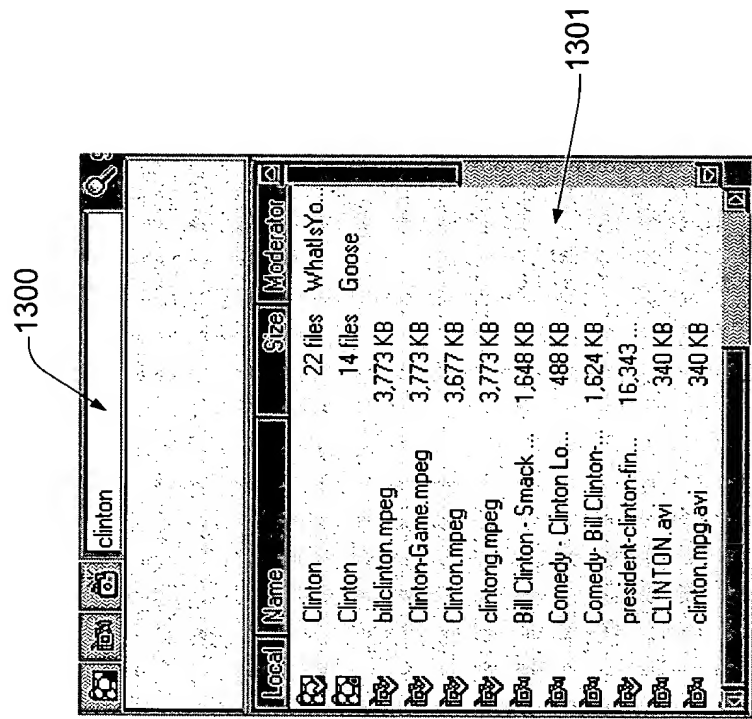


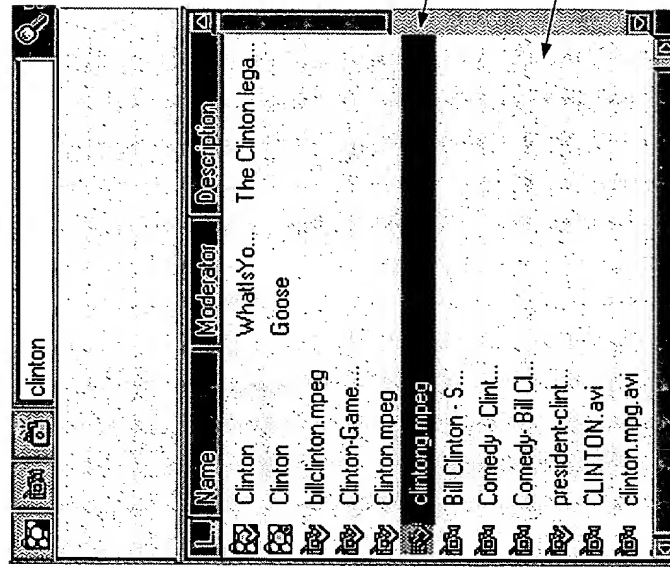
Fig. 12

1200



1200

Fig. 13



1200

Fig. 14